

5 laser annealing the amorphous semiconductor material to form a
6 single crystalline semiconductor layer containing germanium; and
7 doping the single crystalline semiconductor layer and the substrate
8 at a source location and a drain location to form a source region and a drain
9 region, whereby a channel region between the source region and the drain
10 region includes a thin semiconductor germanium region.

1 8. (Amended) The method of claim 1, wherein the amorphous
2 semiconductor material includes silicon germanium.

1 9. (Amended) The method of claim 7, wherein the amorphous
2 semiconductor material includes silicon germanium.

1 11. (Amended) The method of claim 1, further comprising
2 providing a second amorphous semiconductor material above the
3 amorphous semiconductor material including germanium before the laser
4 annealing step, wherein the laser annealing step forms a second single
5 crystalline semiconductive layer from the second amorphous semiconductor
6 material; and
7 siliciding the source region and the drain region to form a silicided
8 layer wherein the depth of the silicided layer is deeper than the second single
9 crystalline semiconductor layer.